

Attorney's Docket No.
017575.0789

PATENT APPLICATION
10/723,426

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Toliyat, et al.
Serial No. 10/723,426
Filing Date: November 25, 2003
Group Art Unit.: 2834
Title: **UNIPOLAR DRIVE TOPOLOGY FOR
PERMANENT MAGNET BRUSHLESS DC
MOTORS AND SWITCHED RELUCTANCE
MOTORS**

Commissioner of Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Sir:

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Willie Jiles
Willie Jiles

Date: *July 21, 2005*

INFORMATION DISCLOSURE STATEMENT

Applicants respectfully request, pursuant to 37 C.F.R. §§1.56, 1.97, and 1.98, that these documents listed on the attached PTO-1449 form be considered and cited in the examination of the above-identified application. Copies of the documents are enclosed for the convenience of the Examiner. Furthermore, pursuant to 37 C.F.R. §§1.97(g) and (h), Applicants make no representation that these documents qualify as prior art or that these documents are material to patentability of the present application or that a search has been made.

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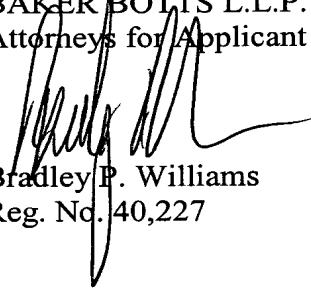
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REMARKS

The first Office Action has been received by the Applicant in the above identified patent application. Pursuant to 37 CFR § 1.97(c) enclosed herewith is a check for \$180.00. Please charge any additional fees or credit any overpayment to Deposit Account No. 02-0384 of BAKER BOTTS L.L.P.

Respectfully submitted,

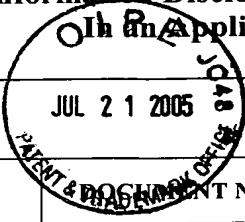
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Date: 7/2/05

PTO-1449 Information Disclosure Citation On an Application		Application No. 10/723,426		Applicant(s) Toliyat, et al.	
Docket Number 017575.0789		Group Art Unit 2834		Filing Date 11/25/2003	



U.S. PATENT DOCUMENTS						
	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS							
	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
J							
K							
L							

	OTHER DOCUMENTS (Including Author, Title, Source, and Pertinent Pages)		DATE
M	T. Gopalarathnam, H.A. Toliyat, "Input Current Shaping in BLDC Motor Drives Using a New Converter Topology," IECON'01: The 27th Annual Conference of the IEEE Industrial Electronics Society.		
N	T. Kenjo and S. Nagamori, <i>Permanent-Magnet and Brushless DC Motors</i> . Oxford, UK: Clarendon Press, 1985.		1985
O	J.R. Hendershot Jr. and T.J.E. Miller, <i>Design of Brushless Permanent Magnet Motors</i> . Hillsboro, OH: Magna Physics Publishing, 1994.		1994
P	R. Krishnan and S. Lee, "PM Brushless DC Motor Drive with a new Power Converter Topology," in <i>Conf. Rec. IEEE IAS Annu. Meeting</i> , Oct. 1995, pp.380-387.		1995
Q	R. Krishnan and P. Vijayraghavan, "A New Power Converter Topology for PM Brushless DC Motor Drives," in <i>Conf. Rec. IEEE IECON</i> , 1998, vol. 2, pp. 709-714.		1998
R	R. Krishnan, "A Novel Single Switch per Phase Converter Topology for Four-Quadrant PM Brushless DC Motor Drive," in <i>Conf. Rec. IEEE IAS Annu. Meeting</i> , Oct. 1996, vol. 1, pp. 311-318.		10/1996

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

U.S. PATENT AND TRADEMARK OFFICE

PTO-1449 Information Disclosure Citation In an Application	Application No. 10/723,426		Applicant(s) Toliyat, et al.	
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U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
BB							
CC							
DD							

	OTHER DOCUMENTS (Including Author, Title, Source, and Pertinent Pages)					DATE
EE	J. Sebastián, M. Jaureguizar and J. Uceda, "An Overview of Power Factor Correction in Single-Phase Off-Line Power Supply Systems," in <i>Conf. Rec. IEEE IECON</i> , 1994, vol. 3, pp. 1688-1693.					1994
FF	J. Skinner and T.A. Lipo, "Input Current Shaping in Brushless DC Motor Drives Utilizing Inverter Current Control," in <i>Proc. Fifth Intl. Conf. On Electrical Machines and Drives</i> , 1991, pp. 121-125.					1991
GG	R.P. Massey and E.C. Snyder, "High Voltage Single-Ended DC-DC Converter," in <i>Conf Rec. IEEE PESC</i> , 1977, pp. 156-159.					1977
HH	D.S.L. Simonetti, J. Sebastián and J. Uceda, "The Discontinuous Conduction Mode SEPIC and Cuk Power Factor Preregulators: Analysis and Design," <i>IEEE Trans. Indl. Electr.</i> , vol. 44, no. 5, pp. 630-637, Oct. 1997.					10/1997
II	T. Gopalarathnam, S. Waikar, H.A. Toliyat, M.S. Arefeen and J.C. Moreira, "Development of Low-Cost Multi-Phase Brushless DC (BLDC) Motors with Unipolar Current Excitations," in <i>Conf. Rec. IEEE IAS Annu. Meeting</i> , Oct. 1999, pp.173-179.					10/1999
JJ	J. Sebastián, J. Uceda, J.A. Cobos, J. Arau and F. Aldana, "Improving Power Factor Correction in Distributed Power Supply Systems Using PWM and ZCS-QR SEPIC Topologies," in <i>Proc. IEEE PESC</i> , 1991, pp. 780-791.					1991

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						YES	NO
	TT						
	UU						
	VV						

	OTHER DOCUMENTS (Including Author, Title, Source, and Pertinent Pages)	DATE
WW	F.S. Dos Reis, F. Antunes, J. Sebastián and J. Uceda, "Influence of the Control Method in the PFP Converter Size," in <i>Conf. Rec. ISIE</i> , 1997, pp. 365-370.	1997
XX	R. Krishnan and S. Lee, "PM Brushless DC Motor Drive with a new Power Converter Topology," <i>Conf. Record, IEEE-IAS Annual Meeting</i> , pp. 380-387, 1995.	1995
YY	R. Krishnan, "A Novel Single Switch per Phase Converter Topology for Four-Quadrant PM Brushless DC Motor Drive," <i>Conf. Rec. of the IEEE-IAS Annual Meeting</i> , 1996, Vol. 1, pp. 311-318.	1996
ZZ	V. Grigore, J. Kyyra and J. Rajamaki, "Input Filter Design for Power Factor Correction Converters Operating in Discontinuous Conduction Mode," <i>IEEE International Symposium on Electromagnetic Compatibility</i> , 1999, Vol. 1, pp. 145-150.	1999
AAA		

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